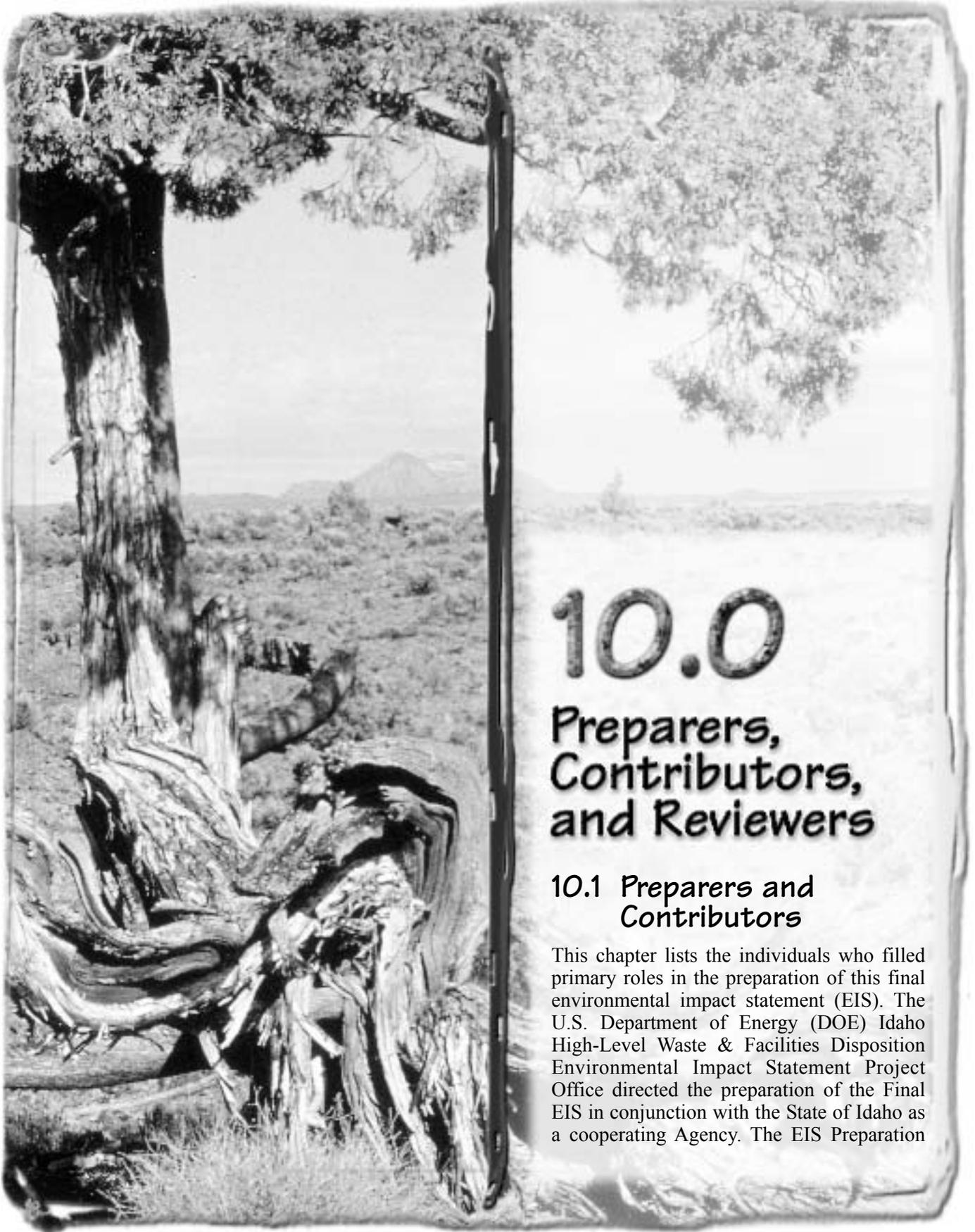


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Preparers,
Contributors,
and Reviewers



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Preparers, Contributors, and Reviewers

10.1 Preparers and Contributors

This chapter lists the individuals who filled primary roles in the preparation of this final environmental impact statement (EIS). The U.S. Department of Energy (DOE) Idaho High-Level Waste & Facilities Disposition Environmental Impact Statement Project Office directed the preparation of the Final EIS in conjunction with the State of Idaho as a cooperating Agency. The EIS Preparation

Team, led by Tetra Tech NUS, Inc, provided primary assistance to DOE along with assistance from Jason & Associates Company, Ryan-Belanger Associates, Global Technologies Incorporated Company, Portage Environmental, Inc., ERIN Engineering & Research Inc. Company, Rogers & Associates Engineering Unit Dames & Moore, Inc., David Miller & Associates Company, Jacobs Engineering Group, and Hinman Law Offices. The EIS Preparation Team was responsible for developing the analytical methodology and alternatives, coordinating the work tasks, performing the impact analyses, and producing the document. DOE was responsible for data quality, procedural adequacy the scope and content of the EIS, issue resolution, and directing the EIS Preparation Team.

In addition, the Management and Operating Contractor at the Idaho National Engineering and Environmental Laboratory (INEEL) assisted in the preparation of supporting documentation and provided additional information for the EIS, as did the Shoshone-Bannock Tribes for cultural resources. These organizations worked closely with the EIS Preparation Team under DOE direction. The State of Idaho INEEL Oversight Program was the lead for State of Idaho cooperation on this EIS. Other State of Idaho Agencies provided assistance with supporting information and document review. DOE independently evaluated all data and supporting documentation prepared by these organizations. Further, DOE retained the responsibility for determining the appropriateness and adequacy of incorporating any data, analyses, and results of other work performed by these organizations in the EIS. The EIS Preparation Team was responsible for integrating such work into the EIS.

As required by Federal regulations (40 CFR 1506.5c), subcontractors have signed National Environmental Policy Act (NEPA) Disclosure Statements in relation to the work they performed on this EIS. These statements appear at the end of this chapter.

Name	Education	Experience	Responsibility
U.S. Department of Energy			
<i>Joseph O. Boda</i>	<i>M.S., Sanitary Engineering, 1975 B.S., Soil and Water Science, 1971</i>	<i>30 years experience in environmental and natural resource management</i>	<i>Programmatic and Technical Reviewer</i>
<i>Bradley P. Bugger</i>	<i>B.S., Journalism, 1979</i>	<i>9 years experience as a contractor and federal employee in stakeholder involvement, media relations and intergovernmental activities</i>	<i>Public Affairs Lead</i>
<i>Joel T. Case</i>	<i>M.S., Environmental and Nuclear Engineering, 1980 B.S., Microbiology, 1978</i>	<i>20 years experience in nuclear engineering and waste management in both the commercial and Department of Energy sectors; currently Director of DOE's INTEC Waste Program responsible for management and oversight activities for INEEL HLW</i>	<i>Programmatic and Technical Reviewer</i>
<i>Roger K. Corman</i>	<i>J.D., 1978 B.A., 1975</i>	<i>22 years legal experience including 15 years as an environmental attorney</i>	<i>Consultations, Legal and Regulatory Issues</i>

Name	Education	Experience	Responsibility
Robert J. Creed, Jr., PG	M.S., Geology, 1998 B.S., Earth Sciences, 1983	10 years of experience in DOE research and project management in contaminant transport, earthquake engineering and flood hydrology	Analytical Lead - Geology and Water Resources
Jack D. Depperschmidt	B.S., Wildlife Biology, 1985	17 years, including 8 years regulatory compliance; 2 years natural resource management; and 7 years NEPA compliance	Regulatory Compliance Associate Advisor; NEPA Compliance Associate Advisor; Analytical Lead - Land Use, Aesthetic and Scenic Resources; Irretrievable and Irreversible Impacts
Denise M. Gloré	J.D., 1985 M.S., Biology, 1980 B.A., Geography and Anthropology, 1978	19 years, including 13 years as environmental attorney; 6 years in photogrammetry, NEPA data collection and statistical analysis	Consultations, Legal and Regulatory Issues
Jan Hagers	M.B.A., 1974 B.S., Mechanical Engineering, 1968	30 years engineering experience on nuclear projects with 7 years NEPA experience as a manager or technical lead	Analytical Lead - Environmental Justice
David Herrin	M.S., Electrical Engineering, 1992 B.S., Electrical Engineering, 1990	6 years experience in construction project management	Analytical Lead – Facility Accidents, Traffic and Transportation, Utilities and Energy
Talley Jenkins	M.S., Metallurgical Engineering, 1991 B.S., Metallurgical Engineering, 1989	7 years involvement in Environmental Restoration program dealing with risk assessment, feasibility studies, and remedial action	CERCLA and WAG-3 Coordinator; Facilities Disposition Advisor
Richard Kimmel, P.E.	B.S., Civil Engineering, 1969	32 years, including construction, engineering and project/environmental management at fossil-fueled and nuclear power plants, and DOE including public involvement and NEPA analyses	Final EIS Project Manager

List of Preparers and OCI's

Name	Education	Experience	Responsibility
<i>Seb Klein</i>	M.B.A., 1993 B.A., Accounting, 1991 B.A., Management & Organization, 1991	9 years including experience in compiling and developing socioeconomic data for INEEL	Analytical Lead - Socioeconomics
<i>Ralph W. Russell</i>	B.S., Chemical Engineering, 1970	22 years air quality; 4 years public involvement	Analytical Lead - Air Resources (<i>through September 2001</i>)
<i>Dan Sanow</i>	B.B.S., Management and Organization, 1990	10 years program management in areas of deactivation, D&D, waste management, construction engineering, Quality Engineering and audit of NQA-1 programs	Facility Disposition
<i>Robert Starck</i>	B.S., Zoology, 1975	15 years environmental science	Analytical Lead - Cultural Resources
<i>Roger Twitchell</i>	B.S., Botany, 1979	25 years natural resources management experience including 8 years as DOE-ID NEPA Compliance Officer	INEEL NEPA Compliance Officer; Analytical Lead - Ecological Resources, Cumulative Impacts
<i>Thomas L. Wichmann</i>	U.S. Naval Nuclear Propulsion Program Graduate Light Water Breeder Reactor/Expended Core Facility Project Officer S1W Naval Nuclear Reactor Prototype Project Officer	29 years; <i>including experience in</i> Nuclear Power Plant Operations and maintenance, radioactive and hazardous materials transportation; managing preparation of NEPA documents and conducting NEPA analyses	<i>Draft</i> EIS Project Manager
<i>Michael N. Worley</i>	<i>M.S., Environmental Engineering, 1998</i> <i>B.S., Political Science, 1983</i>	<i>17 years experience in technical program management, integrated nuclear operations and maintenance, and safety and health oversight</i>	<i>Programmatic and Technical Reviewer</i>

Name	Education	Experience	Responsibility
State of Idaho			
<i>Rick Denning</i>	<i>M.S., Environmental Science, 1998 B.S., Chemistry, 1996</i>	<i>8 years experience in water and wastewater chemistry, hazardous and radioactive waste management</i>	<i>Deputy project lead for State of Idaho</i>
Ann Dold	B.S., Environmental Planning, 1983	15 years experience in environmental affairs	Project lead for State of Idaho (<i>through June 2001</i>)
Jerry Downs	Ph.D., Physics, 1975	23 years experience in air quality and 3 years in transportation risk assessments	Air quality and transportation risk issues, QA/QC issues (<i>through January 2002</i>)
David Frederick	M.S., Geology, 1990	10 years experience in geology and groundwater issues	Reviewer for geology/hydrology issues
Robert Guenzler, P.E.	M.S., Civil Engineering, 1966	30 years experience in structural analysis and earthquake engineering	Nuclear engineering and technology
Flint Hall	M.S., Geology, 1992	8 years experience in environmental monitoring of groundwater	Geology/hydrology issues
<i>Mike Ryan</i>	<i>Ph.D., Health Physics, 1982</i>	<i>25 years experience in health physics, environmental monitoring and regulatory compliance program management</i>	<i>Reviewer for geology/hydrology issues</i>
Doug Walker	<i>M.S., Health Physics, 2000</i> B.S., Health Physics, 1990	10 years experience in environmental monitoring and emergency response	Accident and health risk assessment issues
Tetra Tech NUS and associated subcontractors			
Yvonne F. Abernethy	M.S., Forest Management and Economics, 1984 B.S., Forest Management, 1979	5 years preparing NEPA documents; 14 years in natural resource management and environmental planning	Quality Assurance, Data Management
Janet Bouknight	B.S., Biological Sciences, 1995 M.S., Environmental Toxicology, 1998	3 years in polymer research; 1 year in ecological risk assessment	Ecological Resources; Project Information

List of Preparers and OCI's

Name	Education	Experience	Responsibility
Bruce Bradford, P.E.	Ph.D., Civil Engineering, 1974 M.S., Civil Engineering, 1966 B.S., Civil Engineering, 1965	15 years preparing NEPA documents; 32 years in civil engineering specializing in hydrology, hydraulics, and water resources	Senior Technical Reviewer
Steven J. Connor	M.S., Physics, 1974 B.S., Physics, 1973	23 years in environmental management systems, radiological effluent monitoring, analytical laboratory quality assurance, gamma spectrometry, radiological transportation risk assessments, environmental transport, dose assessments, human health risk assessments, and NEPA document preparation	Draft EIS Project Manager
William Craig	M.S., Planning, 1977 B.S., Forestry, 1972	10 years preparing NEPA documents; 20 years utility fuel planning and powerplant siting	Socioeconomics
Kent T. Cubbage	M.S. Environmental Toxicology, 1993 B.S., Environmental Biology, 1991	6 years experience in toxicology, risk assessment, and aquatic and terrestrial ecology	Ecological Resources
Sandy Enyeart, P.E.	B.S., Civil Engineering, 1974 B.A., Fine Arts, 1987	10 years preparing NEPA documents, 22 years DOE experience primarily in water resources, NEPA, and safety analysis	Geology and Soils; Water Resources
Philip Fulmer	Ph.D. Nuclear Engineering, 1993 M.S., Health Physics, 1990 B.A., Health Physics, 1989	10 years experience in radiation protection, internal radiation dosimetry, and external radiation dosimetry	Facility Disposition Modeling
Jean-Luc Glorieux, P.E.	M.S., Chemistry, 1968 B.S., Chemistry, 1966	30 years of environmental engineering experience	Project Engineering

Name	Education	Experience	Responsibility
Brian Hill	B.S., Environmental Health, 1988	3 years preparing NEPA documents; 11 years in health physics, industrial hygiene, emergency preparedness, and environmental science	Environmental Consequences Data, Health and Safety
<i>Nicole Hill</i>	<i>M.B.A., Business Administration, 1999 B.A., Psychology, 1986</i>	<i>1 year preparing NEPA and NRC documents; 1 year performing data retrieval and analysis for groundwater monitoring and seepage basin remediation</i>	<i>Socioeconomics</i>
Douglas Kennemore	M.S., Biology, 1995 B.S., Biology, 1991	2 years preparing NEPA documents; 7 years botany and plant community investigations	Cultural Resources, Aesthetic and Scenic Resources
Lisa A. Matis	M.S., Mechanical Engineering, 1989 B.S., Chemical Engineering, 1984	<i>10</i> years preparing NEPA documents; 15 years of waste management and regulatory compliance services	<i>Final EIS Project Manager</i> ; Consultation and Environmental Requirements; Background; Alternatives; Waste and Materials
William R. McDonell	Ph.D., Nuclear Chemistry, 1951 M.S., Chemistry, 1948 B.S., Chemistry, 1947	50 years experience in nuclear and radiation technologies including strategies for nuclear waste disposal	Senior Consultant
Philip R. Moore	M.S., Wildlife & Fisheries Biology, 1983 B.A., English, 1975	8 years preparing NEPA documents; 17 years as fishery biologist and aquatic ecologist	Environmental Consequences Technical Lead; Land Use
Aparajita Morrison	B.S., Health Physics, 1985	5 years preparing NEPA documents; 13 years of Environmental and Occupational Health Physics Experience	Health and Safety
Richard F. Orthen	B.S., Chemistry, 1979	6 years preparing NEPA documents; 20 years occupational and environmental health physics	Traffic and Transportation

List of Preparers and OCI's

Name	Education	Experience	Responsibility
Robert C. Peel	B.S., Geography, 1976	23 years of Environmental management, environmental compliance, and NEPA experience	Cost Analysis of Alternatives, local coordination, issues management
David N. Perry	B.S., Civil Engineering, 1997	2 years of experience as GIS analyst and environmental engineer, developing environmental GIS applications and analytical databases	Environmental Justice
Diane Sinkowski	M.E., Environmental Engineering, 1994 B.S., Nuclear Engineering Sciences, 1990	4 years preparing NEPA documents; 6 years in fate and transport modeling, human health impacts, environmental compliance, and health physics	Facility closure modeling; Project Information; Traffic and Transportation and Utilities and Energy
James S. Willison, P.E., CHP	M.S., Nuclear Engineering, 1982 B.S., Nuclear Engineering, 1980	2 years preparing NEPA documents; 14 years of accident analyses at nuclear facilities; health physics and radiological engineering	Facility Accidents
Philip L. Young, CHP	M.S., Health Physics, 1989 B.S., Radiation Health, 1988	10 years experience in NEPA document preparation, radiological risk assessment, radioactive waste management, and radiological environmental monitoring	Tetra Tech NUS Deputy Project Manager; Alternatives lead
Jeff Zimmerly	B.S., Health Physics, 1996	1 year of experience in health physics, 6 months preparing NEPA documents, human health and ecological risk assessments and transportation analysis	Transportation

Name	Education	Experience	Responsibility
Jacobs Engineering Group			
Kent Bostick	M.S., Groundwater Hydrology, 1977 B.S., Soil Science, 1975	20 years experience in environmental compliance at DOE and DOD facilities; 10 years in the preparation of NEPA documents	Hanford Impacts
Dwayne Crumpler	M.S., Geology, 1989 B.S., Geology, 1985	10 years experience in environmental compliance at DOE, DOD and private sector facilities; 3 years in the preparation of NEPA documents	Hanford Impacts
Doug Evans	M.S., Geology, 1989 B.S., Geology, 1980	10 years experience in environmental compliance at DOE; 7 years in the preparation of NEPA documents	Hanford Impacts
Harry Fugate	M.S., Environmental Engineering, 1989 MBA, 1988 B.S., Civil and Environmental Engineering, 1986	10 years experience in environmental compliance at DOE; 1 year in the preparation of NEPA documents	Hanford Impacts
Greg Gavel	B.S., Nuclear Engineering, 1990	10 years experience in processing engineering for private sector clients; 1 year in the preparation of NEPA documents	Hanford Impacts
Michael Harker	B.S., Zoology, 1979	15 years experience in environmental compliance at DOE; 5 years in the preparation of NEPA documents	Hanford Impacts
Colin Henderson	M.S., Environmental Engineering, 1996 B.S., Mechanical Engineering, 1986	10 years engineering experience with industry and environmental compliance at DOE; 5 years experience in the preparation of NEPA documents	Hanford Impacts

List of Preparers and OCI's

Name	Education	Experience	Responsibility
Kathleen Moore	M.P.H. Epidemiology and Public Health, 1989 B.S., Biochemistry, 1978	10 years experience in environmental compliance at DOE and DOD; 8 years in the preparation of NEPA documents	Hanford Impacts
Dave Nichols	B.A., Political Science and Communications, 1980	15 years experience in environmental compliance for DOE, DOD, EPA and industry; 9 years experience in the preparation of NEPA documents	Hanford Impacts
Jack Sabin	B.A., Mechanical Engineering, 1973	40 years experience in engineering, project scheduling, and cost estimating for DOE and industry; 3 years experience in the preparation of NEPA documents	Hanford Impacts
Mike Worthington	B.S., Chemical Engineering, 1971	25 years experience in chemical and processing engineering for industry; 1 year experience in the preparation of NEPA documents	Hanford Impacts
Rogers & Associates Engineering Corp.			
Vern C. Rogers	M.S., Nuclear Engineering, 1995 B.S., Physics, 1990	13 years NEPA experience in DOE and EPA research and project management in contaminant fate and transport, risk and performance assessment, regulatory development and support, and cost and economic analysis	Traffic and Transportation

Name	Education	Experience	Responsibility
Ryan Belanger Associates			
<i>Christopher Bartolomei</i>	<i>M.B.A., Business Administration, 1995 B.S., Mechanical Engineering, 1988</i>	<i>7 years engineering experience (aerospace applications) and 7 years of computer system administration, both including extensive Quality Control/Assurance activities</i>	<i>Air Resources</i>
Rich Belanger, CHP	M.S., Radiological Physics, 1976 A.B. Biology, 1974	More than 20 years of operational and consulting experience in radiation protection and environmental studies, including over 5 years of direct involvement in NEPA projects	Air Resources and facility closure modeling
Deborah Ryan	B.S., Meteorology, 1976	20 years of experience in air pollution control and air quality assessments, including over 5 years of direct involvement in NEPA projects	Air Resources
Tetra Tech, Inc.			
Sara McQueen	B.A., Economics, 1995	More than 3 years experience conducting socioeconomic analyses and environmental justice evaluations under NEPA for DOE and DOD	Environmental Justice
Erin Engineering Research			
Al Unione	Ph.D., Mechanics and Hydraulics, 1972 M.S., Mechanics and Hydraulics, 1970 B.S., Mechanical and Aerospace Engineering 1967	26 years of professional experience; <i>including</i> risk assessment, safety assessment, probabilistic risk evaluation, health impact evaluation, <i>and accident analyses</i>	Facility Accidents Lead
Global Technologies, Inc.			
Ken Krivanek	M.S., Thermal & Environmental Engineering, 1979 M.S., Geochemistry/ Hydrology, 1976 B.S., Geology/ Mineralogy, 1972	23 years as an environmental and systems engineer; 15 years preparing NEPA documents	Facility Accidents, Technical Resource Document

List of Preparers and OCI's

Name	Education	Experience	Responsibility
Jason Associates Corporation			
William Berry	Ph.D., Entomology, 1988 M.S., Biology, 1983 B.S., Biology, 1981	10 years of experience in environmental compliance, environmental impact assessment, ecological risk assessment, and remedial investigations/feasibility studies at DOE and DOD facilities	Unavoidable Adverse Impacts; Irreversible and Irretrievable Commitments of Resources; Short-Term Use Versus Long-Term Productivity of the Environment; Cumulative Impacts
Albert Bowman	B.A., Physics and Mathematics, 1958	34 years experience in engineering and related fields including: nuclear engineering, environmental compliance; and environmental impact assessment	Senior Technical Advisor and facility accidents
Carolann Cole	B.S., Experimental Psychology, 1967	22 years of experience specializing in government and industry, communications, public participation, and media planning	Public Involvement; Summary; Comment Response System
Keith Davis, P.E.	M.S., Civil and Environmental Engineering, 1976 B.S., Civil Engineering, 1973	22 years of experience in civil and environmental engineering projects and hazardous and radioactive mixed waste management	Waste and Materials
Kevin Harris	M.S., Environmental Engineering, 1997 B.S., Environmental Engineering, 1995	2 years experience in environmental engineering projects including environmental baseline modeling and environmental sampling	Waste and Materials; Consultations and Environmental Requirements
Kimberly Johnson	B.S., Biology, 1994	6 years of experience in environmental compliance, environmental site assessment, and environmental restoration	Quality Assurance

Name	Education	Experience	Responsibility
<i>David J. Lechel</i>	<i>B.S., Fisheries Biology, 1972 M.S., Fisheries Biology, 1974</i>	<i>28 years experience, including extensive NEPA experience with the Department of Energy</i>	<i>Final EIS Summary</i>
Emily Scarborough	B.S., Biology, 1981	15 years of experience in various areas of health physics, including field operations, training, regulatory compliance, and risk assessment	Affected Environment: Health and Safety
Portage Environmental, Inc.			
<i>Michael J. Spry</i>	<i>M.S., Land Rehabilitation, 1986 B.S., Environmental Studies, 1983</i>	<i>15 years of experience in environmental compliance, preparing CERCLA compliance documents, conducting RCRA facility closures and performing NEPA impact analyses</i>	<i>Affected Environment: Cultural Resources</i>
Hinman Law Offices			
<i>Margaret B. Hinman</i>	<i>J.D., 1986 B.A., Government, 1979</i>	<i>15 years legal experience including 13 years as an environmental attorney</i>	<i>Support for Consultations, Legal and Regulatory Issues</i>

10.2 Reviewers

The DOE Idaho High-Level Waste & Facilities Disposition Environmental Impact Statement Project Office incorporated information from a number of other DOE offices that reviewed the document into the EIS. These included the Office of Environmental Management, the Office of Environmental, Safety, and Health, the Richland Operations Office, the Savannah River Operations Office, the Office of Civilian Radioactive Waste Management, the Yucca Mountain Site Characterization Office, and Yucca Mountain Project Office.